ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
WMM	3	3	100%
CIVIL WORKS	17	17	100%
TOTAL	**20**	**20**	**100%**

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.

Test as per IRC Norms	Frequency of test as per IRC Norms	WMM		
		Total Quantity executed **119.60 cum**		
For WMM Works		Quantity	Actually test done during execution	Percentage of test carried as per IRC Norms
Gradation	1test per 100 cu. Mt. of aggregate	1	1	100%
Aggregate Impact Value	1 test per 200 cu. Mt. of aggregate	1	1	100%
Flakiness and Elongation Index	1 test per 200 cu. Mt. of aggregate	1	1	100%
Total		3	3	100%

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:4:8 a)Cement b)Sand Mortar c)40MM Aggregates	91.91	Cum	3	3	100%
2)Steel-8,10MM	2.22	Tonne	2	2	100%
3)Cube M20	37.08	Cum	6	6	
4)Precast slab (100mm)	77.25	Sqm	1	1	100%
5)Cube M30	78	Cum	5	5	100%
TOTAL			**17**	**17**	**100%**

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Job No.: CTCE/BBMP/NE/W.No.14/WMM/Gradation/2019-20

16.03.2020

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of Work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	16.03.2020
Report Issue Date	:	16.03.2020

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	130	130	2.6	97.4	95-100
22.4	1290	1420	28.40	71.60	60-80
11.2	1050	2470	49.40	50.60	40-60
4.75	725	3195	63.90	36.10	25-40
2.36	650	3845	76.90	23.10	15-30
0.600	580	4425	88.50	11.50	8-22
0.075	395	4820	96.40	3.60	0-8

*Information is furnished by the Customer/Representative.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Ref No.: CTCE/BBMP/NE/W.No.14/WMM/AIV/2019-20 16.03.2020

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of Work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2016)
Date of Testing	:	16.03.2020
Report Issue Date	:	16.03.2020

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	379	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	78	79	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	303	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	20.58	20.68	20.63

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/NE/W.No.14/WMM/Shape.T/2019-20 16.03.2020

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of Work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part 1) : 1963 (RA 2016)
Date of Testing	:	16.03.2020
Report Issue Date	:	16.03.2020

Sl.No.	Description	Result
1	Flakiness Index	11.85%
2	Elongation Index	13.28%
3	Combined Flakiness & Elongation Index	25.13%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/NE/W.No.14/CSR-57/CEMENT/2019-20 Date: 11.03.2020

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of Work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Cement
Sample Received on	:	10.03.2020
Period of Testing	:	10.03.2020 to 11.03.2020
Report Issue Date	:	11.03.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

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No. CTCE/BBMP/NE/W.No.14/CSR-57/SAND-Gradation/2019-20 11.03.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of Work	: Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	: 10.03.2020
Date of Testing	: 11.03.2020
Report Issue Date	: 11.03.2020

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.50	90-100	90-100	90-100	95-100
2.36	80.00	60-95	75-100	85-100	95-100
1.18	62.10	30-70	55-90	75-100	90-100
600 Micron	40.10	15-34	35-59	60-79	80-100
300 Micron	22.10	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Certificate No.: C-2371

Lab No.: CTCE/BBMP/NE/W.No.14/CSR-57/AGG/GR/2019-20

11.03.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of Work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	10.03.2020
Date of Testing	:	11.03.2020
Report Issue Date	:	11.03.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.80	95-100	85-100
20	38.70	30-70	0-20
10	14.40	10-35	0-5
4.75	2.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Lab No.: CTCE/BBMP/NE/W.No.14/Steel/2019-20

12.03.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	Asst. Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	M/s. Nandhi Enterprises, #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Samples ID	:	8mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2016)
Date of Testing	:	12.03.2020
Report Issue Date	:	12.03.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

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